

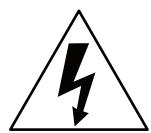
# INSTRUCTION MANUAL

## *Intense Light* **Color Dome Camera**

**VL647iLT**



**speco technologies®**



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**INFORMATION** - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules & CE Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**WARNING** - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**CAUTION** : To prevent electric shock and risk of fire hazards:

- ☞ Do NOT use power sources other than those specified.
- ☞ Do NOT expose this appliance to rain or moisture.

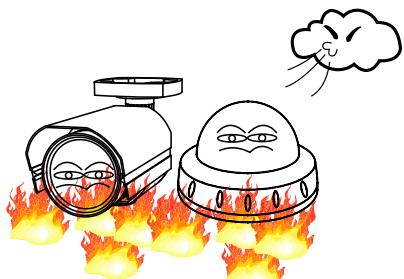
This installation should be made by a qualified service person and should conform to all local codes.

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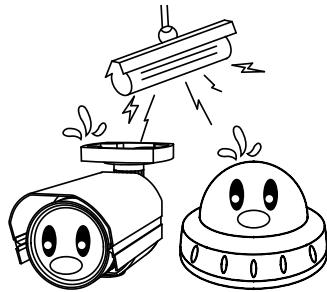
# Precautions

Do not install the camera in extreme temperature conditions.



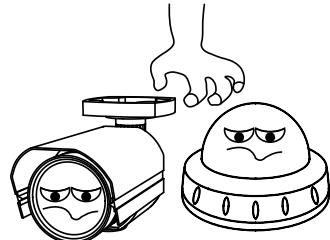
Only use the camera under conditions where temperatures are between -10°C and +50°C. Be especially careful to provide ventilation when operating under high temperatures.

Do not install the camera under unstable lighting conditions.



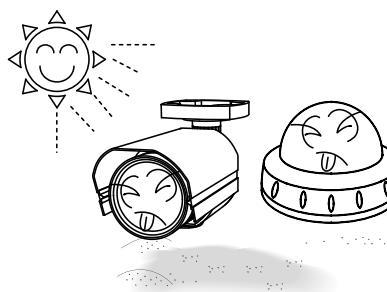
Severe lighting change or flicker can cause the camera to work improperly.

Do not touch the front lens of the camera.



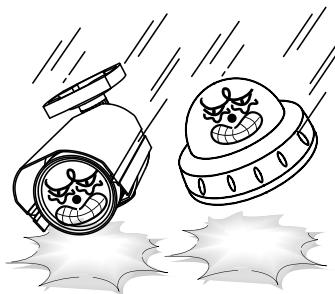
This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

Never keep the camera pointed directly at strong light.



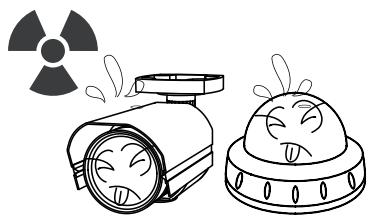
It can cause malfunctions to occur.

Do not drop the camera or subject it to physical shocks.



Severe lighting change or flicker can cause the camera to work improperly.

Do not expose the camera to radioactivity.



If exposed to radioactivity the CCD will fail.

## NOTE

\* If the camera is exposed to spotlight or object reflecting strong light, smear or blooming may occur.

\* please check that the power satisfies the normal specification before connecting the camera.

## Safety Instructions

### Precautions for use

- This camera should be installed by qualified personnel only
- There are no user serviceable parts inside
- Do not disassemble this camera other than to make initial adjustments
- Use a UL approved regulated 24 volt AC or 12 volt DC power supply
- Use appropriate low voltage power cable to prevent fire or electrical shock
- Please insure that your installation area can support the weight of the camera

### Please handle this camera carefully :

- Do not use a strong or abrasive detergent when cleaning the camera
- Do not install near cooling or heating device

# Intense Light Color Dome Camera

DC Auto Iris Varifocal Lens(2.8mm-12mm)



## VL647iLT

580TV Lines

DC Auto Iris Varifocal  
Lens(2.8mm-12mm)



## SPECIFICATIONS

MODEL	VL647iLT
Sensor	1/3" Sony Super HAD II CCD
Total Pixels	NTSC=811(H) * 508(V) / PAL=795(H) * 595(V)
Effective Pixels	NTSC=768(H) * 494(V) / PAL=752(H) * 582(V)
Scanning System	2:1 Interlace
Synchronization	Internal
O.S.D	Available
Backlight	SLC / HLC / Off Selectable
Resolution	580TV Lines
S/N (Y signal)	52dB (AGC Off, Weight On)
Min. Illumination	0.00001Lux(Intense Light * 256)
White Balance	ATW / AWB / AWC → SET / Manual / Indoor / Outdoor
Electronic Shutter Speed	AUTO (1/50sec, 1/60sec ~ 1/100,000sec)
INTENSE-LT	Off / Auto(Selectable limit *2 ~ *256)
Gain Control	High, Middle, Low, Off Selectable
S-DNR	Off/On (0~100 Level Adjustable)
S-WDR	Indoor / Outdoor / Off
Motion Detection	On/Off (4 Zone, Alarm Output)
Privacy	On/Off (8 Zone)
Mirror	Off / Mirror / V-Rev / Rotate
Freeze	On/Off
Sharpness	0~31'(Level Adjustable)
D&N Selection	Color /BW /Auto
Digital Zoom	On(*32) / Off
Power	DC 12V
Power Consumption	200mA
Lens	DC Auto Iris Varifocal Lens(2.8mm-12mm)
Operating Temperature/Humidity	14~122°F RH 95% Max
Storage Temperature/Humidity	-4~140°F RH 95% Max
Dimension	4.33"(W) * 3.23"(H) * 4.33"(D)
Weight	1.54 lbs

## FEATURES

### *HIGHT RESOLUTION*

Horizontal resolution of 580 TV lines is achieved by using a SONY Super-HAD CCD with 410,000 pixels, and a custom DSP yielding images with a high S/N ratio.

### *Day / Night*

The camera can be configured to either display color images in all lighting conditions or be set automatically switch to B/W in low light conditions.

### *INTENSE-LIGHT*

1/3 inch high-density CCD and Digital Signal Processor permit high quality image to be captured in very low light conditions.

### *S-WDR (Speco Wide Dynamic Range)*

Enables the camera to obtain clear and high quality images even in strong backlight conditions.

### *S-DNR (Speco Dynamic Noise Reduction)*

Removes image noise efficiently to display sharp images in low light conditions.

### *SLC (Speco Light Compensation)*

Enables the camera to obtain a clear image when the background image has strong lighting.

## FEATURES

### *HLC (High Light Compensation)*

This function reverses bright spots in the picture (such as headlights). It enables the entire system to do a better job of resolving and displaying grayscale information such as license plate.

### *FREEZE*

This function freezes the current scene for detailed viewing.

### *PRIVACY*

It also has the ability to mask up to 8 areas of the picture where viewing is not desired. Each zone can be independently programmed via the OSD.

### *OSD*

All camera functions are menu driven for easy use.

### *MIRROR*

Picture can be reversed vertically or horizontally.

### *D-ZOOM*

Digital zooming up to X32.

# Menu Set-Up

SET UP MENU	DEFAULT SET	MENU
LENS	DC	<b>DC : LEVEL (0 ~100 Adjustable)</b>
EXPOSURE	<b>SHUTTER</b> <b>AGC: ---</b> <b>INTENSE-LT</b> <b>SLC</b> <b>S-WDR</b> <b>RETURN</b>	<b>SHUTTER : FLK/ 1/60 / 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000</b> <b>AGC : OFF / LOW / MIDDLE/ HIGH</b> <b>INTENSE-LT : x2~ x256 Level Selectable</b> <b>SLC : OFF / SLC (GAIN : LOW, MIDDLE, HIGH/ DEFAULT : LEFT/RIGHT, WIDTH, TOP/ BOTTOM, HEIGHT, RTURN) / HLC (LEVEL : RANGE 0~8 Selectable/ DEFAULT : LEFT/RIGHT, WIDTH, TOP/BOTTOM, HEIGHT, RETURN)</b> <b>S-WDR : OFF / INDOOR/ OUTDOOR</b> <b>RETURN</b>
WHITE BAL.	ATW	<b>ATW/ AWB/ MANUAL(R Gain : 0 ~100 Level Selectable, B Gain : 0 ~100 Level Selectable) / AWC SET / INDOOR / OUTDOOR</b>
DAY / NIGHT.	COLOR	<b>B/W : BURST, RETURN</b> <b>COLOR</b> <b>AUTO : DELAY (0~63) / S-LEVEL(0~100)/ E-LEVEL(0~100)</b> <b>RETURN</b>
S-DNR	ON	<b>ON (RANGE : 0 ~100 Level Selectable) / OFF</b>
SPECIAL	Refer to the next page	
ADJUST	<b>SHARPNESS</b> <b>BLUE</b> <b>RED</b> <b>RETURN</b>	<b>SHARPNESS : (RANGE : 0 ~ 31 Level Adjustable)</b> <b>BLUE : (RANGE : 0 ~ 100 Level Adjustable)</b> <b>RED : (RANGE : 0 ~ 100 Level Adjustable)</b> <b>RETURN</b>
RESET	FACTORY	<b>RETURN</b>
EXIT		<b>Save the SETUP Menu and exit</b>

# Special Menu

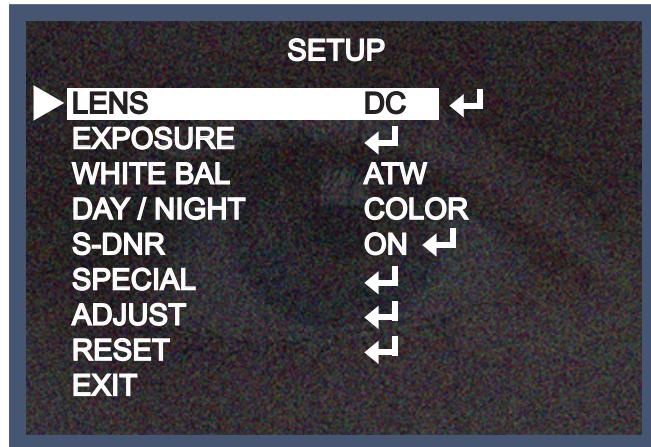
SPECIAL MENU	DEFAULT SET	MENU
CAMERA TITLE	ON	ON / OFF
D - EFFECT	ON	FREEZE / MIRROR/ D-ZOOM/ GAMMA/ NEG. IMAGE /RETURN
MOTION	OFF	<b>AREA SELECT : AREA 1~AREA 4</b> <b>AREA DISPLAY : ON / OFF</b> <b>LEFT / RIGHT : 0 ~ 100 Level Adjustable</b> <b>WIDTH : 0 ~ 100 Level Adjustable</b> <b>TOP / BOTTOM : 0 ~ 100 Level Adjustable</b> <b>HEIGHT : 0 ~ 100 Level Adjustable</b> <b>SENSITIVITY : 0 ~ 40 Level Adjustable</b> <b>MOTION VIEW : ON / OFF</b> <b>RETURN</b>
PRIVACY	OFF	<b>AREA SELECT : AREA 1~AREA 8</b> <b>AREA DISPLAY : ON / OFF</b> <b>LEFT / RIGHT : 0 ~ 100 Level Adjustable</b> <b>WIDTH : 0 ~ 100 Level Adjustable</b> <b>TOP / BOTTOM : 0 ~ 100 Level Adjustable</b> <b>HEIGHT : 0 ~ 100 Level Adjustable</b> <b>COLOR : Selectable in 15 Color</b> <b>RETURN</b>
RETUEEN		<b>END</b>

# Menu Set Up

Menu items can be selected by using the OSD buttons of the camera

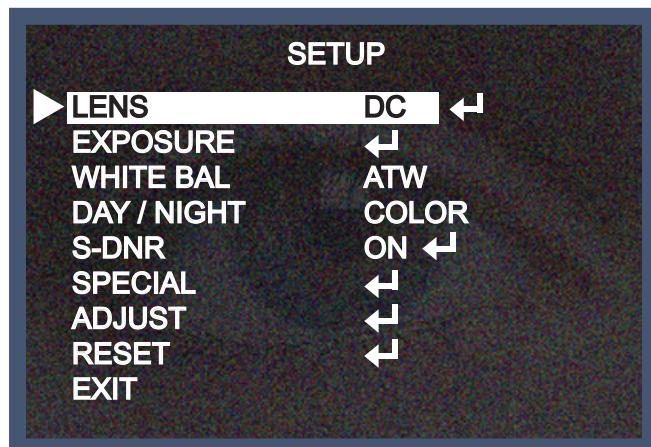
1. Press the Set Up button.

\* The Set Up menu will be displayed on the monitor.



2. Move and select the required function using the Up and Down button.

\* Move the arrow indicator Up or Down to select the desired feature by pressing the Up or Down button.



3. Changing menu settings using the Left or Right button.

\* Available values or Status are displayed by pressing the Left or Right buttons.

Press the button until desired value / status is displayed.

4. After completing the setting move the arrow indicator to EXIT and press the

SET button to EXIT.

**NOTE**

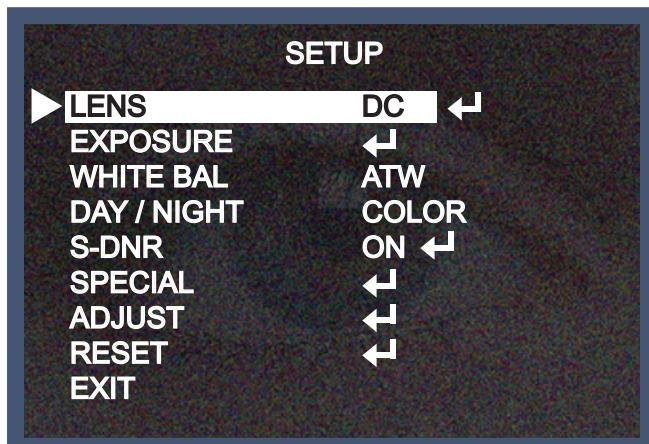
\* Move to the available submenu by moving  arrow to desired feature.

\* Submenu is not available when this symbol is display "-----"

## Lens

1. Move the arrow indicator to LENS using the Up and Down buttons on the Set Up menu screen.

2. Select the desired lens type by pressing the Left or Right button.



 DC:DC Auto Iris Lens

## NOTE

\* When DC is selected, the brightness can be adjusted. The brightness control range is 1 ~ 100.

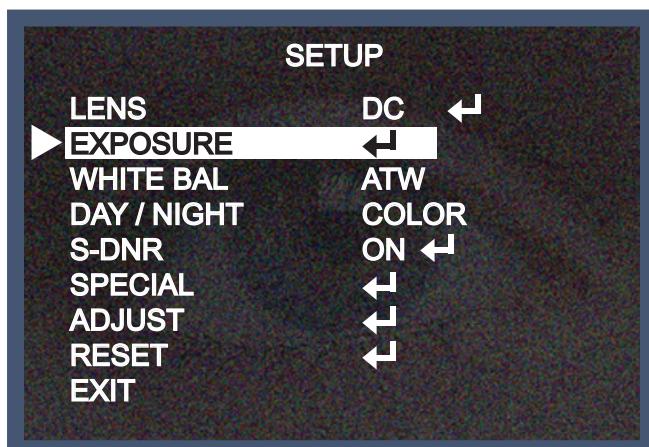


3. Press the RETURN to return to the SETUP menu.

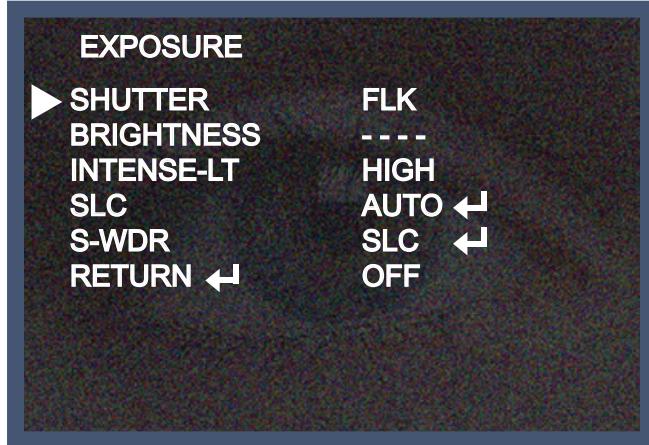
## Exposure

This function is used to select Automatic or Manual shutter speed control.

1. On the Set Up menu screen select EXPOSURE by using the Up or Down button.
2. Select the desired shutter mode by pressing the Left or Right button.



\* FLK : Select FLK mode when flickering occurs; caused by the unmatched frequency of electric lights.



### NOTE

- \* To produce better results with FLK, do not use it in conjunction with the S-WDR mode in the BACKLIGHT menu.
- \* Desired shutter speed can be selected by user 1/60, 1/250, 1/500, 1/2000, 1/5000, 1/0000, 1/100000, FLK .
- \* Brightness just can operate when selected the Manual mode(Option), When selected DC mode, brightness will be disabled .

#### \* AGC(AUTO GAIN CONTROL):

A higher gain increases brightness but also increases any noise.

OFF : Deactivates the AGC function

LOW : Allows automatic gain control to LOW.

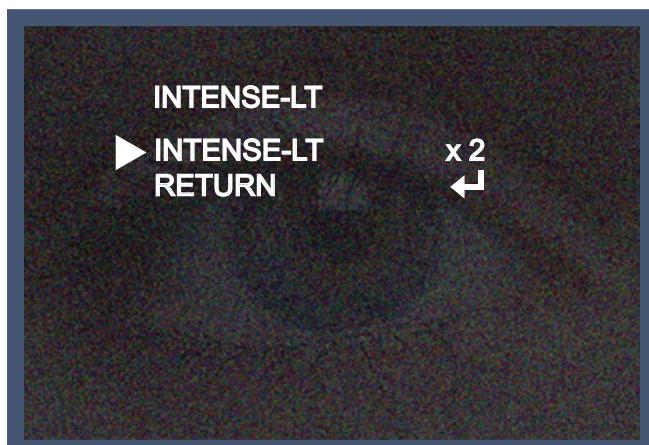
MIDDLE : Allows automatic gain control to MIDDLE.

HIGH : Allows automatic gain control to HIGH

#### \* INTENSE-LT:

At night and/or in dark conditions, the INTENSE-LT mode can be selected desired value from x2 ~ x256.

#### \* FLK : Select FLK mode when flickering occurs; caused by the unmatched frequency of electric lights.



\* RETURN:

Select Return to save the changes in the EXPOSURE menu and return to the SETUP menu.

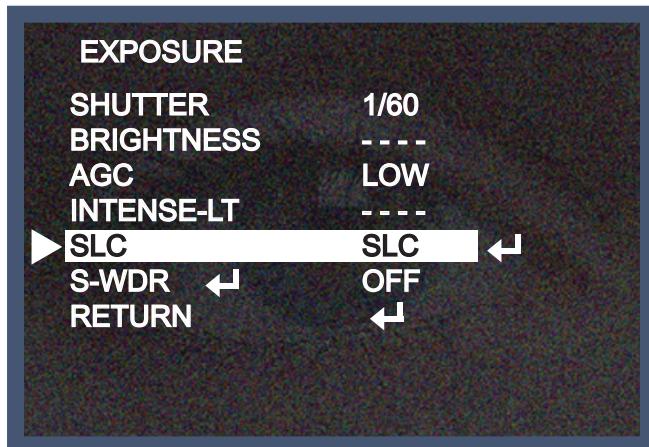
**NOTE**

- \* Pressing the SET button in AUTO mode allows adjustment of image brightness by increasing or decreasing the shutter speed (x2 ~x258).
- \* The higher the level, the brighter the image becomes, but it is possible that an after image (ghosting) could appear.
- \* When INTENSE-LT is activated the increased magnification can induce noise and pixelation; this is quite normal.

## Back Light(SLC)

This camera provides intelligent light level control to overcome even strong backlight conditions.

1. Move the arrow indicator to BACKLIGHT using the Up or Down button on the SETUP menu screen.
2. Select the desired level by using the Left or Right button.



\* OFF : SLC function does not operate.

\* SLC : Users can select and define a specific area in a scene, and view the area clearly.

\* HLC : When there are simultaneous brightness & dark image areas HLC makes both distinct.



**SLC ON**



**SLC OFF**

3. Select a mode using the Left and Right buttons then press the SET button.

Select SLC to adjust the desired SLC area and GAIN level.

\* GAIN : Adjust the SLC sensitivity by selecting LOW, MIDDLE or HIGH.

\* DEFAULT : Press the Default to back to the factory default when input the wrong data .

① Move the arrow indicator to select the WIDTH of cells to increase or decrease by using the Left / Right button from 0 ~ 7 cells.

SLC	LOW
GAIN	
DEFAULT	←
LEFT / RIGHT	7
WIDTH	8
TOP / BOTTOM	7
HEIGHT	8
RETURN	

② Move the arrow indicator to select the HEIGHT of cells to increase or decrease by using the Left / Right button from 0 ~ 7 cells.

③ Move the arrow indicator to the LEFT / RIGHT and TOP / BOTTOM to select the desired area positon by using the LEFT or RIGHT button.

\* Move the arrow indicator to RETURN and press the Set Up button after complete the SLC area set to return to EXPOSURE menu.

4. Select HLC by using the Left and Right buttons then press the Set Up button to set up the desired HLC area and GAIN level.



**HLC OFF**

**HLC ON**

\* LEVEL : Adjust the HLC sensitivity by selecting between 0~8.

\* DEFAULT : Press the Default to return to the factory default when input the wrong data .

① Move the arrow indicator to select the WIDTH of cells to increase or decrease by using the Left / Right button from 0 ~ 7 cells.

HLC	8
LEVEL	8
DEFAULT	←
LEFT / RIGHT	7
WIDTH	8
TOP / BOTTOM	7
HEIGHT	8
RETURN	

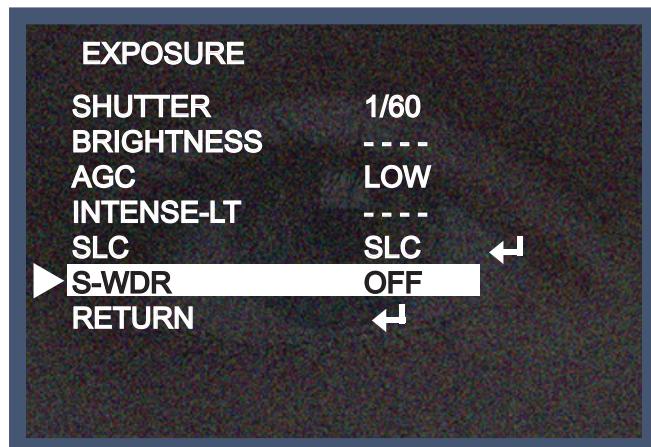
② Move the arrow indicator to select the HEIGHT of cells to increase or decrease by using the Left / Right button from 0 ~ 7 cells.

③ Move the arrow indicator to the LEFT / RIGHT and TOP / BOTTOM to select the desired area positon by using the LEFT or RIGHT button.

# S-WDR

This camera provides intelligent light level control to overcome even strong backlight conditions.

1. Move the arrow indicator to S-WDR using the Up or Down button on the EXPOSURE menu screen.
2. Select the desired feature by using the Left or Right button.



\* S-WDR : When there are simultaneous brightness & dark image areas S-WDR makes both distinct and can be selected desired feature between OUTDOOR and INDOOR.

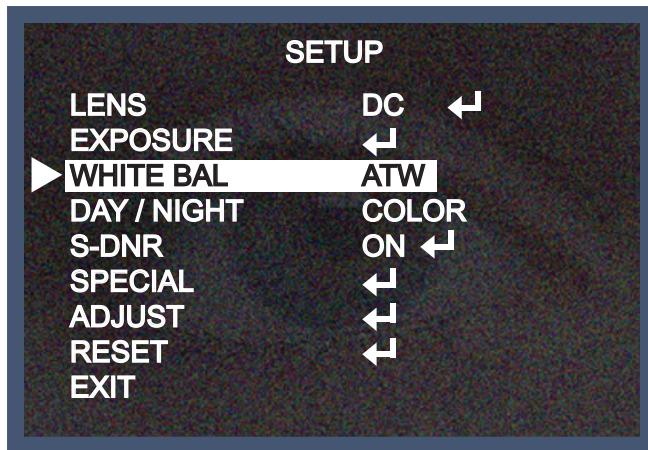
\* OFF : S-WDR function does not operate.

\* RETURN: Select Return to save the changes in the EXPOSURE menu and retun to the SETUP menu.

# White Balance

The White Balance function is used to control the "on-screen" color.

1. Move the arrow indicator to WHITE BAL on the SETUP menu screen using the Up and Down button.
2. Select the desired mode by using the Left or Right button.



\* **There are three user selectable White Balance settings available.**

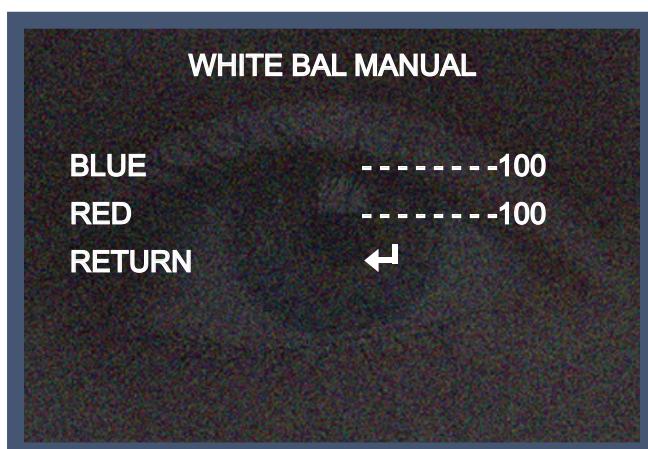
\* ATW : (Auto Tracking White Balance)

Normal setting; when the color temperature range is from 1,800°K to 10,500°K. (Ex: a fluorescent lamp or outdoors)

\* AWB : The White Balance is automatically adjusted in a specific environment.

\* AWC → SET : To obtain the best results press the SET button while the camera is focused onto white paper. If the environment, and/or light source changes, the White Balance will require re-adjustment.

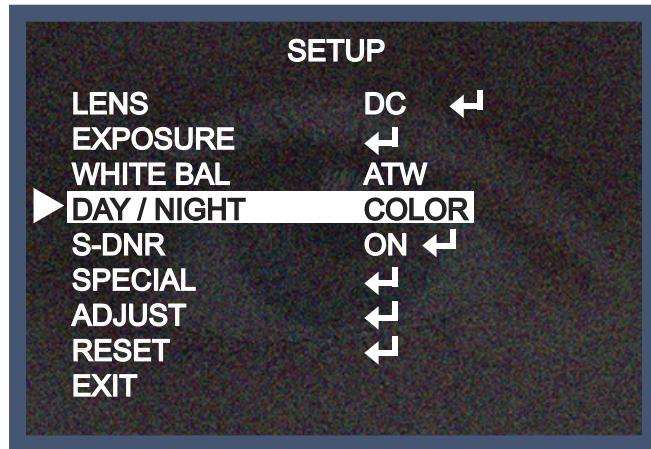
\* MANUAL : Used for fine adjustment of White Balance. Set White Balance first using ATW or AWC then change to MANUAL and press SETUP button. Increase or decrease the value of R-Gain(Red) and B-Gain(Blue) while monitoring the color of the image.



# Day / Night

Picture can be displayed in either color or black and white.

1. Select DAY / NIGHT using the Up or Down button on the SETUP menu screen.

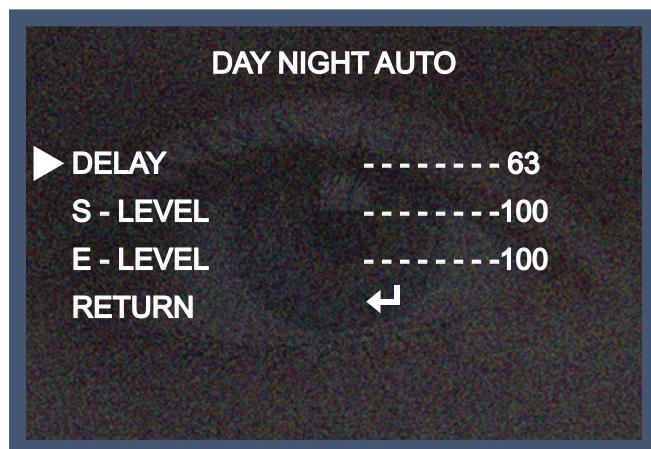


2. Select the desired mode using the Left and Right buttons.

\* COLOR : The picture is always displayed in color.

\* BW : The White Balance is automatically adjusted in a specific environment.

\* AUTO : The mode is automatically switches to color in normal conditions and switches to B/W mode when ambient illumination is low. To set the switching time or speed in AUTO mode, press the SET button.



3. Select the desired mode and set the values by using the Left or Right button .

\* DELAY : The range can be adjusted between 0 ~ 63.

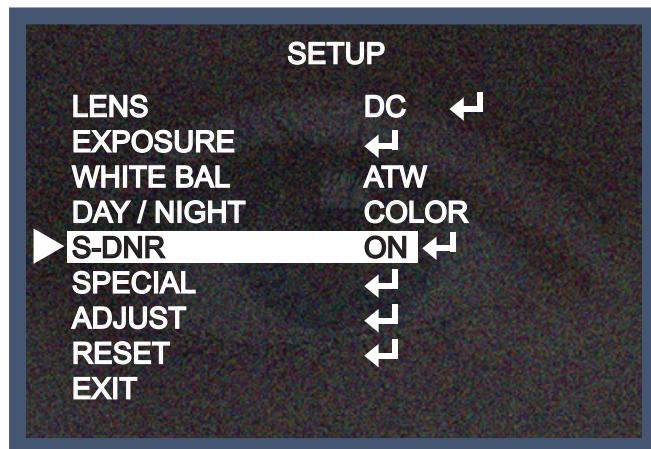
\* S - LEVEL : The start level can be adjusted between 0 ~ 100.

\* E - LEVEL : The end level can be adjusted between 0 ~ 100.

## S-DNR

S-DNR is used to reduce the level of background noise in a low luminance environment.

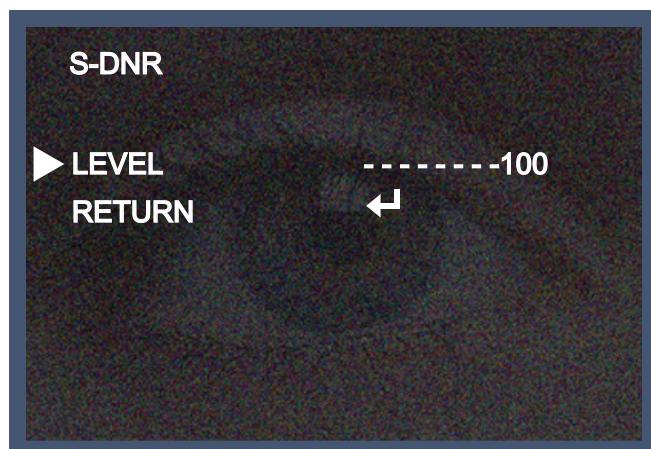
1. Move the arrow indicator to S-DNR by using the Up and Down button.



2. Select whether or not to activate S-DNR by using the Left and Right buttons.

\* ON: Activates S-DNR - Digital noise reduction can be adjusted between 0 ~ 100.

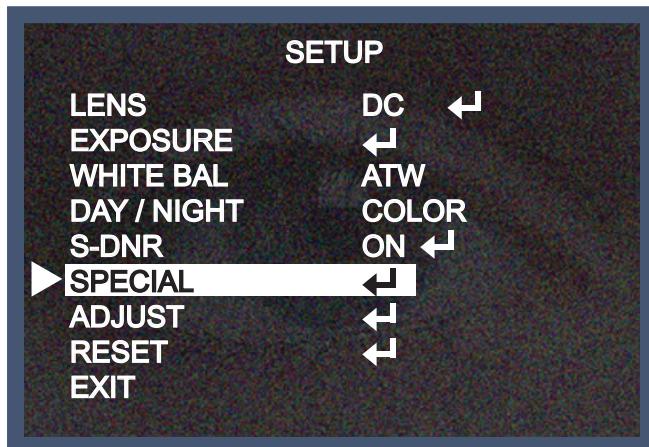
\* OFF: Deactivates S-DNR - noise is not reduced.



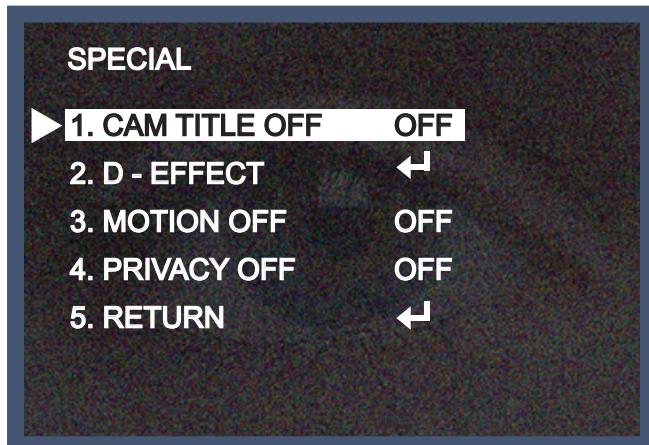
\* Select RETURN by using the Up or Down button to return to Set Up menu.

# Special

1. When the SETUP menu screen is displayed, select SPECIAL using the Up and Down buttons.



2. Select one of the mode using the Up and Down button.



1. CAM TITLE : When input, the Camera ID is displayed on the monitor.

1-1) Move the arrow indicator to CAMERA ID using the Up or Down button on the SETUP menu screen.

1-2) Set to ON using the Left or Right button.

## NOTE

\* When CAMERA TITLE is set to OFF, the CAMERA TITLE is not displayed on the monitor.

1-3) Press the SETUP button.



1-4) The CAMERA TITLE can be up to 15 alphanumeric characters in length.

① Move the cursor to choose an alphanumeric character.



② Choose a character in displayed range A~Z, a~z, 0~9 using the Up, Down, Left and Right buttons.

③ Select the desired character by pressing the SETUP button.

- The cursor moves to the next position, after character input, by pressing the SETUP button.

④ Repeat the above steps until the Camera ID has been created.

## NOTE

\* In cases where the wrong Camera ID has been input.....

Move the cursor to CLR and press SETUP button to erase characters from left to right, and repeat the above steps to input the characters again.

1-5) To select the position where the Camera ID should be displayed on the screen.

① Move the cursor to POS and press the SET button.



② Created camera ID is displayed.

(Factory default position) →

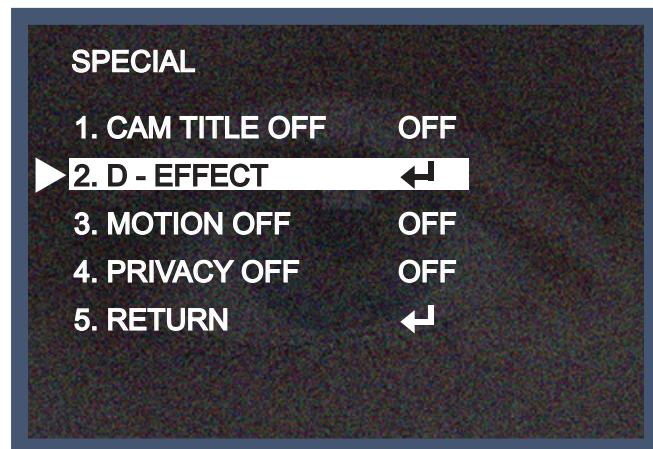


③ Select a new position by using the four directional button, Press the SET button to confirm the position.

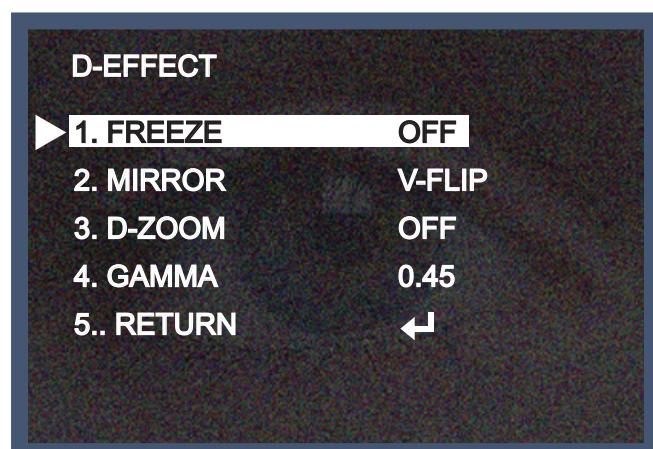


## 2. D - EFFECT

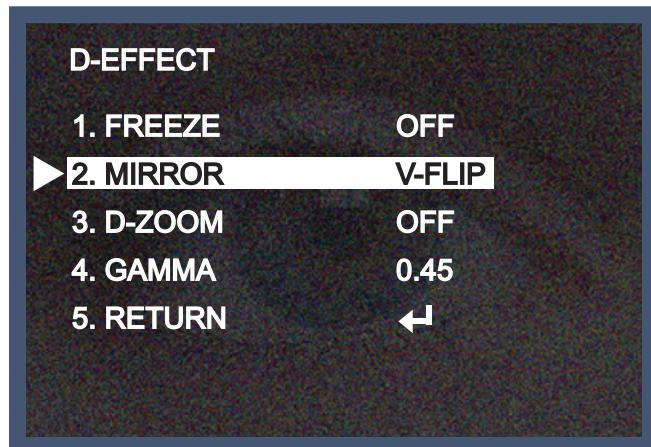
Move the cursor to D-EFFECT and press the SET button to set the other image functions.



2 -1) FREEZE : Image freezing or moving Image



2 -2) MIRROR : Flip the image horizontally on the screen.



\* V-FLIP : Flip the image vertically on the screen.

\* ROTATE : Flip the horizontal image vertically on the screen.

\* OFF : Disabled.



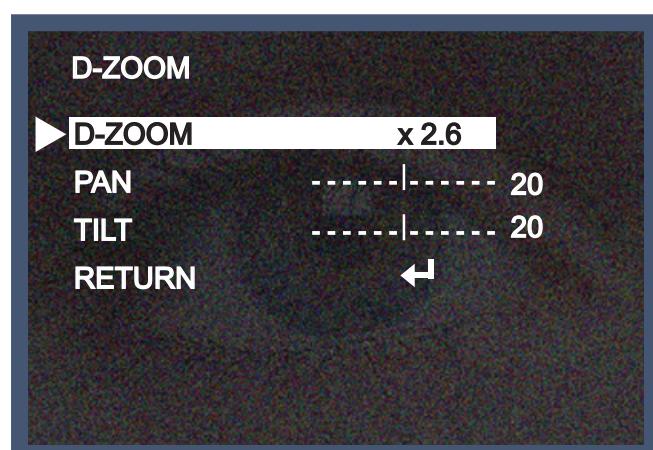
**MIRROR ON**

**MIRROR OFF**

2 -3) D - ZOOM: Digital zoom available, range x1 ~ x32.

\* PAN : The pan range can be controlled between -100 ~ + 100

\* TILT : The tilt range can be controlled between -100 ~ + 100



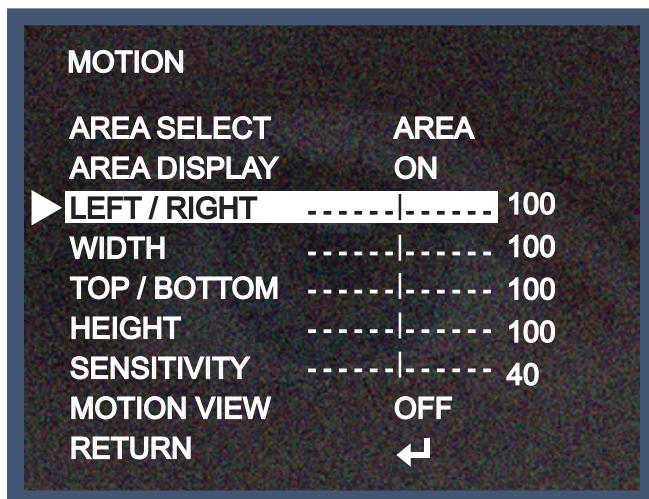
## NOTE

\* PAN and TILT function should be available when using the digital zoom.

2-4) GAMMA : Desired gamma values can be adjusted between 0.05 ~ 1.00.

2-5) RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL menu.

## 3. MOTION



3-1) When the special menu screen is displayed, use the Up or Down button to access the MOTION menu.

- ① AREA SELECT : Determines whether the MD area selected AREA 1, 2, 3, 4.
- ② Move the arrow indicator to select the HEIGHT of cells to increase or decrease by using the Left / Right button between the level 0 ~ 100.
- ③ Move the arrow indicator to the LEFT / RIGHT and TOP / BOTTOM to select the desired area position by using the LEFT or RIGHT button.
- ④ Move the arrow indicator to select the WIDTH of cells to increase or decrease by using the Left / Right button between the level 0 ~ 100.

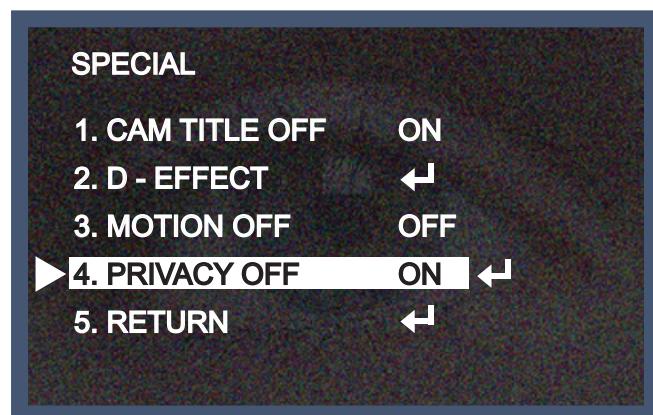
⑤ Move the arrow indicator to select the SENSITIVITY to increase or decrease by using the Left / Right button between the level 0 ~ 40.

⑥ RETURN : Move the arrow indicator to RETURN after complete the setup to return to SPECIAL menu.

#### 4. PRIVACY

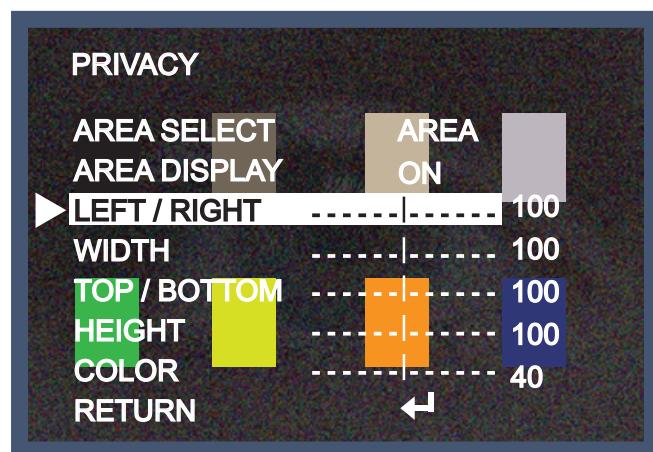
Hide an area you want to hide on the screen.

4-1). When the SPECIAL menu screen is displayed, press the Up and Down buttons to set to PRIVACY.



4-2). Set up the area mode using the 4 direction buttons.

① AREA SELECT : You can select up to 8 MD area.



② AREA DISPLAY : OFF : Disabled

ON : Activates area display

③ Move the arrow indicator to **WIDTH** to make desired width of cells to increase or decrease by using the Left / Right button between the level 0 ~ 100.

④ Move the arrow indicator to **HEIGHT** to make desired height of cells to increase or decrease by using the Left / Right button between the level 0 ~ 100.

⑤ Move the arrow indicator to the **LEFT / RIGHT** and **TOP / BOTTOM** to select the desired area positon by using the **LEFT** or **RIGHT** button.

⑥ Move the arrow indicator to **COLOR** to select the desired color of each area cells by using the Left / Right button between the 15 different color.

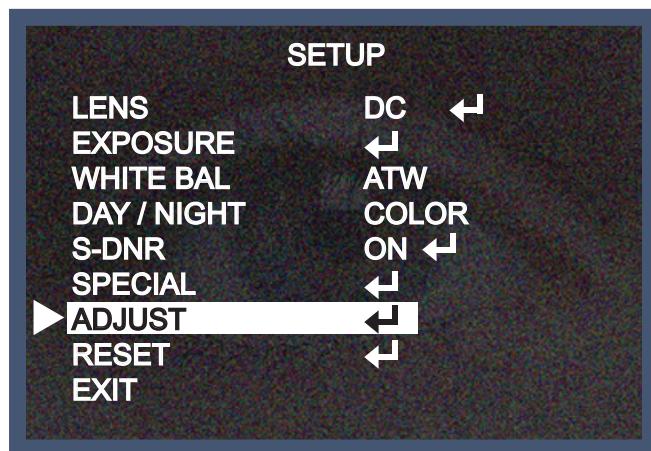
⑦ **RETURN** : Move the arrow indicator to **RETURN** after complete the setup to return to **SPECIAL** menu.

## 5. RETURN

Move the arrow indicator to **RETURN** after complete the setup to return to **SETUP** menu.

# ADJUST

1. When the **SETUP** menu screen is displayed, select **ADJUST** using the Up and Down buttons.



2. Select the desired mode by using Up or Down button..



**SHARPNESS** : Improving image clarity. The level can be adjusted to obtain an improved image. However, when the level is set too high it can distort the image or cause noise.

\* Select BLUE or RED to increase or decrease the value of R-Gain(RED) and B-Gain(BLUE) while monitoring the color of the image.

**RETURN** :Move the arrow indicator to RETURN after complete the setup to return to SETUP menu.

## RESET

Resets the camera settings to the factory defaults.

## EXIT

Press the SET button in the EXIT menu to save the current settings and exit the SETUP menu.

# Trouble Shooting

PROBLEM	POSSIBLE CAUSE
Northing appears on the screen.	<ul style="list-style-type: none"><li>☞ Check the power cable, power supply output and video connection between the camera and monitor.</li></ul>
The image on the screen is dim.	<ul style="list-style-type: none"><li>☞ Are the camera lens or the lens glass dirty? Clean the lens / glass with a soft clean cloth.</li><li>☞ Adjust the monitor controls, as required.</li><li>☞ If the camera is facing a very strong light, change the camera position.</li><li>☞ Adjust the lens focus.</li></ul>
The image on the screen is dark.	<ul style="list-style-type: none"><li>☞ Adjust the contrast control of the monitor.</li><li>☞ If there is an intermediate device, correctly set the 75Ω/Hi-z.</li></ul>
The camera is not working properly and the surface of the camera is hot.	<ul style="list-style-type: none"><li>☞ Check the camera is correctly connected to an appropriate regulated power source.</li></ul>
Motion Detection is not activated.	<ul style="list-style-type: none"><li>☞ Has MOTION DET been set to ON in the menu?</li><li>☞ Has MD AREA been properly defined?</li></ul>
The color of the picture is not correct.	<ul style="list-style-type: none"><li>☞ Check the settings in WHITE BALANCE menu.</li></ul>
The image on the screen flickers.	<ul style="list-style-type: none"><li>☞ Make sure that the camera isn't facing direct sunlight or fluorescent lighting. If necessary, change the camera position.</li></ul>
The INTENSE-LT does not work.	<ul style="list-style-type: none"><li>☞ Check that the AGC setting in the EXPOSURE menu is't set to OFF.</li><li>☞ Check the EXPOSURE menu and make sure SHUTTER is set to-----.</li></ul>

## PRODUCT WARRANTIES AND INFORMATION EFFECTIVE JULY 8, 2008

### POLICY, TERMS AND CONDITIONS OF SALE

This statement of policy is in lieu of any other policy, expressed or implied, and no representative or person is authorized to assume for us any other liability or policy without our written consent. We cannot be held responsible for typographical errors.

### TERMS OF PAYMENT

2%, 10 days, net 30 from invoice date of merchandise for qualified accounts or Visa/MasterCard/Amex net at time of order placement only, other payment discounts do not apply (\$300 credit card minimum). We reserve the right to charge 1-1/2% interest per month on past due balances. New orders will not be shipped while there is a past due balance. We will also ship net C.O.D. or C.I.A.

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This price sheet reflects current published price. All prices are subject to change without notice. All items will be billed at current prices.

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Companies that have not established credit with our company should allow a sufficient period of time for credit approval. Please be sure to provide complete credit information, bank and trade references, plus financial statements, if available with your first order. To expedite first shipment, a certified or bank check with the order or use of Visa/MasterCard/Amex will avoid delays, while we are checking credit and waiting for bank clearance.

### FREIGHT POLICY

All shipments are F.O.B. our New York warehouse. All orders totaling \$2000 or more will be shipped freight allowed to any point in zones 1,2,3,4,5 and 1/2 freight allowed in zones 6,7,8, providing invoice is paid within 30 days from receipt of merchandise, catalogs or exceptions from regular pricing. All UPS and USPS shipments will be insured with insurance fee plus shipping and handling charges added to the invoice.

### MINIMUM OPENING ORDER \$1500

We reserve the right to refuse reorders under \$250. **PLEASE REQUEST CONFIRMATION OF ALL FAXED PURCHASE ORDERS.**

### WARRANTY

<b>VIDEO</b>	Cameras	5 Years
	Monitors & IR LEDs	1 Year
	DVRs / EZVR Series VDRs	3 Years
	PCPro / PCL Series DVRs	2 Years
<b>AUDIO</b>	Indoor Speakers	Lifetime
	Outdoor/Weatherproof Speakers	5 Years
	Amplifiers	5 Years
	PA Horns, Microphones, Volume Controls	2 Years
	Megaphones, Speaker Distribution Centers and Speaker Selectors	1 Year
	Electrical Equipment Not Listed Above & Balance of Line	90 Days

We warranty all products to be free from any manufacturing or material defects. This warranty will not extend to any products which have been subjected to misuse, neglect, accident, or improper installation, used in violation of instructions furnished by us; or to units which have been repaired or altered outside of the factory. This limited warranty does not apply to broken cases, batteries, or other physically damaged parts. Upon request by the customer, the company will at the customer's expense repackage merchandise in new cartons, replace missing accessories, and return in resalable condition. Unless requested, the company will replace and return all merchandise in the packaging in which it was received. This warranty is in lieu of all expressed warranties, expressed or implied, and of all obligations or liability on our part, and we neither assume nor authorize any representative or other person to assume for us any obligation or liability. In no event shall we be liable for incidental or consequential damages arising from the use of the product, or for any delay in the use of this product do to causes beyond our control. Some states do not allow limitations of how long an implied warranty lasts and/or do not allow the exclusion or limitation of consequential damages. The above limitations on implied warranty and consequential damages may not apply to you. This warranty gives you specific legal rights. You may have other rights which vary from state to state. See actual warranty statement included with product for limitations and exclusions where applicable. This limited warranty extends to products listed in the company's current price schedule.

### RETURNS

A written return authorization must be obtained prior to shipment. Label(s) must appear on all packages and return must be ship prepaid. Defective in-warranty products will be returned prepaid. Defective out-of-warranty products will be repaired at a nominal charge for parts and labor and returned with shipping charges added to the invoice. If you require an estimate before repair, please request.

### RETURNED GOODS POLICY

1. RETURNS SENT WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED. CREDIT WILL BE ISSUED UPON INSPECTION OF RETURNED UNITS.
2. No discounted item may be returned for credit or exchange.
3. An order of \$3.00 for every \$1.00 to be returned must accompany a request for return for stock adjustment.
4. There will be a minimum charge of 15% for handling and repacking where necessary. Merchandise returned for credit or exchange with missing or damaged packaging or accessories will be charged accordingly. Merchandise returned for repair will be shipped back repaired but in the same physical condition as when received by us. If repacking or refurbishing is requested, where possible, you will be charged accordingly.
5. If a credit is issued, current best quantity price or price when purchased, whichever is lower, will prevail.

### BACK ORDERS

Products not immediately available for shipment will be back ordered and shipped as soon as available, unless we are advised to cancel back orders. The original order will determine basis of shipment. If the original order is freight allowed, back orders will be freight allowed. If the original order does not qualify for freight allowance, back orders will be shipped freight collect or shipping and handling charges added to the invoice.

### PROMOTIONAL MATERIAL

Requests for nominal amounts of catalogs, brochures, promotional sheets, etc. will be supplied at no charge. Requests for bulk quantities of promotional materials will be billed on a cooperative 50-50 basis.

### CLAIMS

Claims for shortage must be presented within thirty days of date of invoice. Freight damage claims and freight shortages should be filed directly with the carrier within seven days of receipt of shipment. No liability will be accepted for damages directly or indirectly caused from the use of our products or from any other cause. Our liability shall be limited to the repair and/or replacement of our products, at our option of found to be defective.

**NOTE:** All units priced and packaged individually unless specified. Not responsible for printer errors.

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